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SHEET 1 OF 10

INFORMATION DISCLOSURE STATEMENT

ATTY DOCKET NO.
IL-74461SERIAL NO.
877670-242APPLICANT
Joe W. Gray et al.

08/31/914

FILING DATE
March 15, 1991GROUP
180

U.S. PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
4 7 7 0 9 9 2	09/03/88	van den Engh and Trask	435	6	11/27/85
4 6 8 1 8 4 0	07/21/87	Stephenson et al.	435	6	01/18/84
4 7 2 5 5 3 6	02/16/89	Fritsch et al.	435	6	09/19/85
4 7 2 1 6 6 9	01/26/88	Barton	435	6	01/18/85
4 7 0 7 4 4 0	11/17/87	Stavrianopoulos	435	6	01/30/84
4 6 8 3 1 9 5	07/28/87	Mullis et al.	435	6	02/07/86
4 6 4 7 5 2 9	03/07/87	Rodland et al.	435	6	01/18/84
4 8 8 8 2 7 8	12/18/89	Singer and Lawrence	435	6	10/13/88 (cont. 10/22/85)

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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	PUBL DATE	COUNTRY	GROUP 180		TRANSLATION YES NO
			CLASS	SUBCLASS	
2 0 1 9 4 0 8	10/31/79	U.K., Kourilsky et al.	C07H2V/00	C07677/02	
2 2 1 5 7 2 4	09/27/89	U.K., Moyzis and Meyne	C12Q 1/58, C07H 21/00, C12N 15/00		
8 7 0 5 0 2 7	08/27/87	W.O., Page	C07H 21/04, C12Q 1/68	C12N 15/00	
9 0 0 5 7 8 9	05/31/90	W.O., Ward et al.	C12Q1/68		

OTHER DISCLOSURES

Gray et al., (Abstract) "Flow Cytometric Detection of Chromosome Aberrations"; Conference on Flow Cytometry in Cell Biology and Genetics, January 15-17, 1985 (San Francisco, CA) no publication date established

Szabo and Ward, TIBS, 7(11): 425-427 (December 1982)

Gall and Pardue, PNAS (USA), 63: 378-383 (1969)

AMINER

DATE CONSIDERED

Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance.

Include a copy of the citation if not in conformance.

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ATTY. DOCKET NO. IL-7446I	SERIAL NO. 07/670,242
APPLICANT Joe W. Gray et al.	08/3/29/4
FILING DATE March 15, 1991	GROUP 180

U.S. PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
4 3 5 8 5 3 5	11/09/82	Falkow et al.	435	5	12/08/80
4 7 1 1 9 5 5	12/08/87	Ward et al.	536	29	05/23/83
4 7 7 2 6 9 1	09/20/88	Herman	536	27	06/05/85
4 7 1 0 4 6 5	12/01/87	Weissman and Collins	435	91	04/19/84
		USSN 271,509			11/15/88
		USSN 07/627,707 (pending)			12/14/90
		cont. USSN 06/937,793 (now abandoned)			12/04/86
		USSN 07/497,098			03/20/90
		USSN 07/537,305			06/12/90

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	PUBL DATE	COUNTRY	GROUP 100		TRANSLATION	
			CLASS	SUBCLASS	YES	NO

OTHER DISCLOSURES

Buongiorno-Nardelli and Amaldi, Nature, 225: 946-948 (1970)

John et al. Nature, 223: 582-587 (1969)

Schardin et al., Hum. Genet., 71: 281-287 (1985)

MINER

DATE CONSIDERED

MINER:

Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance.

INFORMATION DISCLOSURE STATEMENT

A circular black ink stamp. The outer ring contains the words "FORMATORY LIBRARY" at the top and "MAIL ROOM" at the bottom. The center of the stamp contains the date "AUG 17 1992".

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IL-74461~~ SERIAL NO.
~~APPLICANT Joe W. Gray et al.~~ 07/1670, 242
~~FILING DATE March 15, 1991~~ GROUP 180
08/31/2914

U.S. PATENT DOCUMENTS

~~FOREIGN PATENT DOCUMENTS~~

OTHER DISCLOSURES

Durnham et al. / Som. Cell Molec. Genetics, 11(6): 571-577 (1985)

Manuelidis, Hum. Genet., 71: 288-293 (1985)

~~Herzenberg et al., PNAS (USA), 76 (3): 1453-1455 (March 1979)~~

MINER

DATE CONSIDERED

MINER:

Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance. Include a copy of this page.



INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
IL-7446ISERIAL NO.
071670,242

APPLICANT

Joe W. Gray et al.

FILING DATE

March 15, 1991

GROUP

180

OTHER DISCLOSURES

Britten et al., Methods of Enzymology, 29: 363-418 (1974)

RECEIVED

AUG 25 1992

Benton and Davis, Science, 196: 180-182 (1977)Landegent et al., Nature, 317: 175-177 (12 September 1985)Olsen et al., Biochemistry, 19: 219-2428 (1980)Schmeckpeper et al., Proc. Natl. Acad. Sci. USA 76(12): 6525-6528 (1979)Brison et al., Molecular and Cellular Biology, 2 (15): 578-587 (1982)Manuelidis and Ward, Chromosoma (Berl.) 91: 28-38 (1984)Lawrence Livermore National Laboratory publication, Energy and Technology Review, July 1985, pp. 82-83 entitled "Chromosome-Specific Human Gene Libraries"Van Dilla and Deaven (Abstract), Am J. of Human Genetics, 37 (R Supplement) (July 1985)Lewin, R., Science, 221 (4616): 1167 (16 Sept. 1983)Albertson, EMBO J., 4 (10): 2493-2498 (1985)Albertson, EMBO J., 3 (6): 1227-1234 (1984)

AMINER

DATE CONSIDERED

AMINER:

Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form.

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APPLICANT	Joe W. Gray et al.	08/312914	
FILING DATE	March 15, 1991	GROUP	180

OTHER DISCLOSURES

Cox et al., Developmental Biology, 101: 485-502 (1984) RECEIVED
MAY 6 1991
ORN

Sealy et al., Nucleic Acid Research, 13: 1905-1922 (1985) GROUP 100

Harper and Saunders, Chromosoma (Berl) 82: 431-439 (1981)

Wallace et al., Nucleic Acids Research, 9 (4): 879-894 (1981) RECEIVED
MAY 25 1991

Scalenghe et al., Chromosoma (Berl.), 82: 205-216 GROUP 100

Jabs et al., PNAS (USA), 81: 4884-4888 (1984)

Stewart et al., Nucleic Acids Research, 13(11): 4125-4132 (1985)

Landegent et al., Exp. Cell Res., 153: 61-72 (1984)

Cannizzaro et al., Cytogenet. Cell Genet. 39: 173-178 (1985)

Kao et al., Human Genetics, 62: 337-341 (1982)

Harper et al., PNAS, 78(7): 4458-4460 (1981)

Willard et al., Nucleic Acids Res., 11(7): 2017-2033 (1983)

AMINER

DATE CONSIDERED

AMINER:

Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of the citation.



SHEET 6 OF 10

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IL-7446I	071670-242
APPLICANT	Joe W. Gray et al
FILING DATE	March 15, 1991
GROUP	
180	

OTHER DISCLOSURES

Manuelidis, PNAS (USA), 81: 3123 (1984)

McCormick, F., Cancer Cells, 1(2): 56-61 (Oct. 1989)

Montgomery et al., PNAS (USA) 80: 5724-5728 (1983)

Rappold et al., Human Genetics, 67: 317 (1984)

Cantor and Schimmel, Biophysical Chemistry: The Behavior of Biological Macromolecules (part III, p. 1228) (Freeman 1980)

Trask et al., "Detection of DNA Sequences in Nuclei in Suspension by In Situ Hybridization and Dual Beam", UCRL-93372 Abst. (No publication date established)

Kievits et al., Cytometry, 11: 105-109 (1990)

Trask et al., Genomics, 5: 710-717 (1989)

Pinkel et al., PNAS (USA), 83: 2934-2938 (May 1986)

Pinkel et al., PNAS, (USA), 85: 9138-9142 (Dec. 1988)

Lawrence et al., Cell, 52: 51-61 (Jan. 15, 1988)

Cremer et al., Hum. Genet., 80: 235-246 (1988)

EXAMINER

DATE CONSIDERED

EXAMINER:

Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with your statement.

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SERIAL NO.

IL-74461

07/676,242

APPLICANT

Joe W. Gray et al.

FILING DATE

GROUP

March 15, 1991

180

OTHER DISCLOSURES

Pinkel et al., Am. J. Hum. Genet. (Supplement), 42 (3): A118 (Sept. 1988) (Abstract 0471; 11.5)

Lichter et al., Hum. Genet., 80: 224-234 (1988) RECEIVED

Fuscoe et al., Genomics, 5: 100-109 (1989)

RECEIVED
May 6, 1991
GROUP 180

Landegent et al., Hum. Genet., 77: 366-370 (1987)

Langer-Safer et al., PNAS (USA), 79: 4381-4385 (1982)

LeGrys et al., CRC Crit. Rev. Clin. Lab. Sci., 25 (4): 255-274 (1987)

Lichter et al., PNAS (USA), 85: 9664-9668 (Dec. 1988)

Pinkel et al., Cold Spring Harbor Symposia on Quantitative Biology, Vol. LI: 151-157 (1986)

Pinkel et al., Am. J. Hum. Genet., (Supplement), 39 (3): A129 (379) (Sept. 1986)

Pinkel et al., Am. J. Hum. Genet. (Supplement), 41 (3): A34 (096; 12.12) (Sept. 1987)

Gray et al., Cytometry (Suppl. 1), Abst. 19, p. 4 (1987)

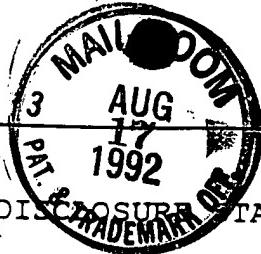
Pinkel et al., Am. J. Hum. Genet. (Supplement), 37 (4): A112 (328; 17.2) (July 1985)

EXAMINER

DATE CONSIDERED

EXAMINER:

Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with next mail.



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IL-7446I	71670-242
APPLICANT	08/31/2914
Joe W. Gray et al.	
FILING DATE	GROUP
March 15, 1992	180

OTHER DISCLOSURES

Cremer et al., Hum. Genet., 74: 346-352 (1986)

RECEIVED

Cremer et al., Exp. Cell Res., 176: 199-220 (1988)AUG 6 1992
PTK

GROUP 180

Selypes and Lorenez, Hum. Genet. 79: 357-359 (1988)Lichter and Ward, Nature, 345: 93-94 (May 1990)Cremer et al., Cytometry, 11: 110-118 (1990)Yunis et al., Chromosoma (Berl), 61: 335-344 (1977)Bookstein et al., PNAS (USA), 85: 2210-2214 (April 1988)Cohen et al., N. Engl. Med., 301: 592-595 (1979)Devilee et al., Cancer Res., 48: 5825-5830 (Oct. 15, 1988)Friend et al., Nature, 323: 643-646 (Oct. 16, 1986)Nederlof et al., Cancer Genet. Cytogenet., 42: 87-98 (1989)Sparkes and Sparkes, Science, 208: 1042-1044 (May 30, 1988)

AMINER

DATE CONSIDERED

AMINER:

Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with next communication.



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APPLICANT	Joe W. Gray et al. 08/32914
FILING DATE	GROUP 180
March 15, 1991	

OTHER DISCLOSURES

~~RECEIVED~~

Trent et al., Cytogenet. Cell Genet., 51: 533-562 (1989) ~~1986-5 1992~~
~~KPA~~

~~GROUP 180~~

Lichter et al., Science, 247: 64-69 (Jan. 5, 1990)

Arnoldus et al., Cytogenet. and Cell Genet., 54: 108-111 (1990)

Bergerheim et al., Cancer Res., 49: 1390-1396 (March 15, 1989)

~~UCRL-93243 ABST: Pinkel et al., "Simplified Cytogenetics Using Biotin Labeled Nucleic Acid Probes and Quantitative Fluorescence Microscopy" (no publication date established)~~

~~UCRL-93269 ABST: Pinkel et al., "Cytogenetics Using Fluorescent Nucleic Acid Probes and Quantitative Microscopic Measurement" (no publication date established)~~

~~UCRL-93372 ABST: Trask et al., "Detection of DNA Sequences in Nuclei in Suspension by In Situ Hybridization and Dual Beam Flow Cytometry" (no publication date established)~~

~~UCRL-93553 ABST: Pinkel et al., "Rapid, Quantitative Cytogenetic Analysis Using Fluorescently Labeled Nucleic Acid Probes" (no publication date established)~~

~~UCRL-93567 ABST: Gray et al., "Quantitative Cytogenetics: Progress Report on the Development of Fluorescence Hybridization for Specific Chromosome Staining" (no publication date established)~~

~~UCRL-93837 ABST: Straume et al., "Chromosome Translocations at Low Radiation Doses Quantified Using Fluorescent DNA Probes" (no publication date established)~~

~~UCRL 102263 ABST: Lucas et al., "Rapid Translocation Analysis Using Fluorescence In Situ Hybridization: Applied to Long Term Biological Dosimetry" (no publication date established)~~

~~UCRL-101042 ABST: Pinkel et al., "Detection of Translocations and Aneuploidy in Metaphase Spreads and Interphase Nuclei by In Situ Hybridization with Probes which Stain Entire Human Chromosomes" (no publication date established)~~

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DATE CONSIDERED

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OTHER DISCLOSURES

UCRL-10143 ABST: Pinkel et al., "Detection of Structural and Numerical Abnormalities in Metaphase Spreads and Interphase Nuclei Using In Situ Hybridization" (no publication date established)

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